Approved For Release 2008/07/31 : CIA-RDP78B04555A000100100059-5

TOP SECRET RUFF

PRIORITY

P 131518Z
FM NPIC
[redacted] 25X1

1969 MAY 13 15 59Z

OUT-67658

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN
FICEUR
[redacted]
ZEM
T O P S E C R E T TTTTT [redacted] CITE NPIC 6298
[redacted] ALSO FOR 544 ARTW.
SECTION 1 OF 2.
SUBJECT: CAMERA INFORMATION FOR MISSION 1051-1
1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.
2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR	AID 2
FOCAL LENGTHS (MM)	609.625	609.602	FWD 54.850	FWD 54.900	
			AFT 54.700	AFT 54.950	
FILTER (WRATTEN)	21	21	25	25	SCIEN
APERTURE	F3.5	F3.5	F8.0	F6.3	WEST
SLIT WIDTH (IN)	.140	.140	NA	NA	EAST
EXPOSURE (SEC)	1/100	1/100	NA	NA	M&S
FILM	3404	3404	NA	NA	PGM
RESOLUTION (L/MM)	199	287	NA	NA	IAS
CAMERA NUMBER	212	213	NA	NA	DIA-XX4
B. S/I UNITS			STELLAR	INDEX	SPAD
FOCAL LENGTH (MM) PART 1			84.0158	38.592	DIA-AP
PART 2			84.1486	38.64	[redacted] 25X1
FILTER (WRATTEN)			NONE	21	CMX
APERTURE			F1.8	F4.5	
EXPOSURE (SEC)			2.0	1/500	
FILM			3401	3400	
RESOLUTION (L/MM) PART 1			NA	88	
PART 2			NA	83	
UNIT NUMBER PART 1			D115/148/142		
PART 2			D122/156/161		

DISTRIBUTION	
CY	OFFICE PI
1	FILE
	CABLE SEC. 25X1
	PPRB/RD 25X1
	SECUR. 25X1
	TSSG
	PSG/OC
	RRD
	REPRO

ADVANCE CY SANITIZED WITH TEXT

3. LENS DISTORTION (PIN CUSHION) MM

	3	2	1	Ø	359	358	357
A. MAIN UNITS							
FWD UNIT	.008	.004	.002	Ø	.001	.001	.005
AFT UNIT	.001	Ø	Ø	Ø	Ø	.001	.002

B. HORIZON CAMERAS (MM)

	FWD PORT	FWD STAR	AFT PORT	AFT STAR
(RADIAL) 10 DEGREES	.010	.020	.020	.010
20 DEGREES	.050	.190	.050	.060
(TANGENTIAL) MAX VECTOR	.010	.010	.030	.030

			DEG.	MIN.
4. CAMERA ANGLES				
A. ANGLE BETWEEN PAN CAMERAS			29	46.09
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD	STAR	15	1.7
	FWD	PORT	14	59.3
	AFT	STAR	15	8.7
	AFT	PORT	15	55.3
C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1		89	55.3
	PART 2		90	00.5

[redacted] 25X1

5. TIMING MARKS
FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER

GROUP 1 Excluded from automatic downgrading and declassification

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SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL NO.	CPS.	GAV.	AMPL. LEVEL NO.	CPS.	GAV.	PASSES
4	.3731	.0337	7	.0594	.0054	1D THRU 70D
5	.3625	.0328	7	.0594	.0054	71D THRU 87D
5	.3625	.0328	6	.0727	.0066	95D THRU 100D

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	2	03	14	29	1952	51
2A	2	04	33	24	1314	72
3A	2	06	01	30	1226	76
4A	2	07	30	25	1189	183
5D	2	09	17	04	2216	84
6D	2	10	42	03	1946	77
7D1	2	12	08	25	1758	185
7D2	2	12	11	57	1970	102
8D	2	13	40	11	1893	97
10A	2	16	22	15	874	41
15A	2	23	50	56	761	99
16A	3	01	24	08	974	52
18A	3	04	21	47	874	49
19A1	3	05	53	05	974	52
19A2	3	05	55	16	1105	77
20A	3	07	24	51	1101	50
22D1	3	10	36	44	1858	46
22D2	3	10	40	11	2065	98
23D1	3	12	04	08	1724	56
23D2	3	12	06	17	1853	65
24D	3	13	36	57	1708	205
25D	3	15	06	39	1916	87
26A	3	16	19	29	909	30
32A	4	01	18	42	999	45
34A	4	04	17	26	970	53
35A1	4	05	47	22	990	70
35A2	4	05	49	43	1131	70
36A	4	07	19	06	1118	51
37D	4	08	59	19	1754	44
38D1	4	10	30	56	1875	72
38D2	4	10	35	09	2128	39
38D3	4	10	37	26	2265	112
39D1	4	11	57	40	1702	97
39D2	4	12	00	43	1886	50
41D	4	15	00	09	1901	153
49A1	5	02	40	24	917	55
49A2	5	02	42	24	1037	83
50A	5	04	10	29	949	93
51A	5	05	41	09	1016	176
52A1	5	07	12	43	1135	53
52A2	5	07	14	15	1227	49

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53D1	5	08	52	49	1767	50
53D2	5	08	58	50	2129	29
54D	5	10	24	25	1891	74
55D1	5	11	51	06	1719	49
55D2	5	11	55	30	1984	48
56D	5	13	23	34	1895	99
57A	5	14	31	56	693	80
65A1	6	02	33	21	1000	212
65A2	6	02	38	42	1321	106
66A	6	04	03	26	1035	100
68D	6	07	18	15	1980	167
69D1	6	08	44	56	1879	175
69D2	6	08	50	41	2223	32
69D3	6	08	52	21	2323	195
70D1	6	10	10	12	1624	135
70D2	6	10	19	37	2188	72
71D1	6	11	44	15	1896	49
71D2	6	11	49	41	2221	104
72D	6	13	17	34	2109	44
73D	6	14	27	14	907	44
79D1	6	23	48	14	2290	25
79D2	6	23	49	16	2352	29
81A	7	02	27	38	1094	207
82A	7	03	57	47	1124	150
83A	7	05	27	52	1150	189
84D1	7	07	11	31	1990	87
84D2	7	07	15	05	2204	68
85D1	7	08	39	09	1869	189
85D2	7	08	44	35	2194	153
87D	7	11	37	21	1807	349
95D	7	23	42	18	2353	46
97M	8	02	29	19	1620	100
98A	8	03	52	32	1237	128
99A	8	05	22	08	1237	191
100A	8	06	56	00	1493	53
100D	8	07	05	41	2074	134

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 ECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
10	480473.939	58784.6632	----------
16	514218.384	6129.10858	.000
25	24239.671	53021.3078	MINUS .001
32	63411.588	5793.22484	.000
41	110282.521	52664.1576	.000
47	144007.516	86389.1523	.000
57	196217.090	52198.7255	PLUS .001
63	229922.771	85904.4058	PLUS .001
72	282207.848	51789.4814	PLUS .001
73	287720.313	57301.9462	PLUS .001
79	315958.917	85540.5493	PLUS .001
89	368289.659	51471.2894	PLUS .002
95	402027.076	85208.7050	PLUS .001

GP-1

T O P S E C R E T RUFF

--END OF MESSAGE--

25X1

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